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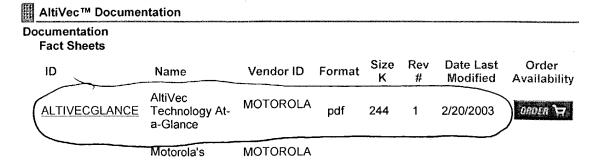
Motorola's AltiVec technology expands the capabilities of PowerPC™ microprocessors by providing leading-edge, general-purpose processing performance while concurrently addressing high-bandwidth data processing and algorithmic-intensive computations in a single-chip solution.

Traditionally, many high-performance applications have contained a combination of a single microprocessor performing the system control function and off-chip devices based on one or more other architectures, such as a DSP farm or custom ASICs, to perform specialized computations. AltiVec technology enables a class of processors that drives the convergence of these technologies. AltiVec technology provides embedded and computing system designers with a new "one part-one code base" approach to product design. Because this integrated solution is still 100% compatible with the industry-standard PowerPC architecture, design and support are simplified, and the development barriers inherent to multiple architecture designs are eliminated. System designers and their customers will benefit through faster time-to-market and lower total system development cost while simultaneously enjoying a tremendous jump in performance.

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- AltiVec Libraries

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- <u>AltiVec Code Samples</u> Code samples of DSP Kernels, Image, Telecommunications, Vectorized Common Math Subroutines, and Video.
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A Return to Top



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# Related Links

- SIMD Technology Community Website (formerly AltiVec.org)
- **Description** PowerPC™ AltiVec Technical Training (PlaceWare)

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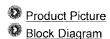
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#### MPC7410: Host Processor

The MPC7410 Host Processor is a high-performance, low-power, 32-bit PowerPC processor combined with a full 128-bit implementation of Motorola's AltiVec™ technology. This creates a microprocessor ideal for leading-edge computing, embedded network control, and signal processing applications. The MPC7410 offers the high-bandwidth MPX bus with minimized signal setup times and reduced idle cycles to increase maximum operating frequency to over 100 MHz, in addition to increased address and data bus bandwidth. To maintain compatibility for existing designs, the MPC7410 also supports the 60x bus protocol. MPC7410 microprocessors offer single-cycle double precision floating-point performance, full symmetric multi-procesing (SMP) capabilities, and support for up to 2MB of backside L2 cache. While the MPC7410 is software-compatible with existing MPC603e, MPC740, and MPC750 microprocessors, to utilize the full potential of the AltiVec technology changes to existing source code is required.



#### MPC7410 Features

#### **Superscalar Microprocessor**

MPC7410 microprocessors feature a high-frequency, superscalar PowerPC processor core, capable of issuing three instructions per clock cycle (two instructions + branch) into eight independent execution units:

- Two integer units and Double-precision floating-point unit
- Vector permute unit
- Vector arithmetic logic unit
- Load/store unit and System unit
- · Branch processing unit

#### MPX Bus Interface

MPC7410 microprocessors support the MPX bus protocol with 64-bit data bus and 32-bit address bus. Support is included for burst, split, pipelined and out-of-order transactions, in addition to data streaming, and data intervention (in SMP systems). The interface provides snooping for data cache coherency. The MPC7410 implements the MERSI cache coherency protocol for multiprocessing support in hardware, allowing access to system memory for additional caching bus masters, such as DMA devices.

#### **Power Management**

MPC7410 microprocessors feature a low-power 1.8-volt design with three power-saving user-programmable modes -- nap, doze (with bus snoop) and sleep -- which progressively reduce the power drawn by the processor. The MPC7410 also provides a thermal assist unit and instruction cache throttling for software-controllable thermal management.

Cache and MMU Support

The MPC7410 microprocessor has separate 32-Kbyte, physically addressed instruction and data caches. Both caches feature cache locking and are eight-way set-associative. The MPC7410 microprocessor's dedicated L2 cache interface with on-chip L2 tags features a very fast (up to core speed, 1:1) interface to memory, instruction-only or data-only modes, and parity checking on L2 data. The L2 data bus has both 32-bit and 64-bit modes, which can also be configured as private memory. The MPC7410 microprocessor contains separate memory management units (MMUs) for instructions and data, supporting 4 Petabytes (252) of virtual memory and 4 Gigabytes (232) of physical memory. The MPC7410 also has four

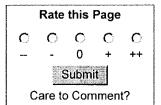


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- Tools
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instruction block address translation (iBAT) and four data block address translation (dBAT) registers.

AltiVec Technology

The AltiVec technology expands the capabilities of Motorola's fourth generation processors by providing leading-edge, general purpose processing performance while concurrently addressing high-bandwidth data processing and algorithmic-intensive computations in a single-chip solution. AltiVec technology:

- Meets the computational demands of networking infrastructure such as echo cancellation equipment, and basestation processing.
- Enables faster, more secure encryption methods optimized for the SIMD processing model.
- Provides compelling performance for multimedia-oriented desktop computers, desktop publishing, and digital video processing.
- Enables real-time processing of the most demanding data streams (MPEG-2 encode, continuous speech recognition, real-time high-resolution 3D memory for additional caching bus masters, such as DMA devices.)

A Return to Top

# MPC7410 Documentation

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MPC7400SOLTIME	SimG4 Timing Model (for Solaris) (01/2002)	ľ	MOTOROLA	gz	279	1.3.1	-
cation Software							
Application Develo	pment Framework				01	. n	<b>~</b>
ID	Name		Vendor ID	Forma	t Size	Rev #	Order Availabi
					11	rr .	~van

<u>KENATI</u>

**NPMGMT** 

NP Management Application Framework

_		1/00	
DI	Ν	K32	•

DINK32				٥.	-	
ID	Name V	endor ID	Format	Size K	Rev #	Order Availability
DINK32	ROM-Based Debug Monitor, R13.1.1	MOTOROLA	-	-	-	פייטש 🦙
Board Support Pa	ckages					
ID	Name	Vendor ID	Format	Size K	Rev #	Order Availability
<u>NPLINUX</u>	NP Linux	<u>KENATI</u>	-	-	-	-
Device Drivers						
ID	Name	Vendor ID	Format	Size K	Rev #	Order Availability
NPLINUX	NP Linux	KENATI	-	-	-	-
Libraries						
ID	Name	Vendor ID	Format	Size K	Rev #	Order Availability
<u>PN311-1</u>	KwikPeg GUI KADAK's KwikPeg Graphical User Interface (GUI) is derived from PEG, a professional, high-quality graphic system create by Swell Software, Inc. to enable you, the embedded system developer, to easily add graphics to your products.	d <u>KADAK</u>	-	-	-	-
Operating System	s					
ID	Name	Vendor ID	Format	Size K	Rev #	Order Availability
ARC-MOT- OSCHANGER	ARC-OS Changer Provides developers the freedom to migrate from either pSOSystem or VxWorks to MQX RTOS while reusing an existing code base	ARC	-	-	-	-
DPP.7XXX.KRN	OSE Real-Time Operating System	<u>ENEA</u>	-	-	-	-
THREADX	ThreadX RTOS. Royalty-free real-time operating system (RTOS) for embedded applications. ThreadX is small, fast, and royalty- free making it ideal for high-volume electronic products.	EXPRESSLOG	-	-	-	-
MORPHOS	MorphOS  MorphOS is designed around the concept of shared resources and the ability to build up applications using shared system components. MorphOS is not unix based.	GENESI	-	-	-	-
INTEGRITY	INTEGRITY INTEGRITY? is a secure, royalty-free Real-Time Operating System intended for use in embedded systems that require maximum reliability.	GREENHILLS	-	-	-	-
JAL100	Jaluna-1	<u>JALUNA</u>	-	-	-	-
JAL200	Jaluna-2 AMX PPC32	<u>JALUNA</u>	-	-	-	-
PX382-1	AMX is a full featured RTOS for the PowerPC family. AMX has been tested on the EST SBC8260, Embedded Planet RPX Lite MPC823 and Motorola Ultra 603, MBX860, MPC860 ADS and MPC860 FADS.	KADAK	-	-	-	-
NPLINUX	NP Linux	KENATI	-	-	-	-
Protocol Stacks						
ID	Name	Vendor ID	Format	Size K	Rev #	Order Availability
<u>MSTP</u>	AnviMSTP Avnisoft's AvniMSTP is a completely portable ANSI C complimplementation of the IEEE 802.1s MSTP. It is implemented	ant AVNISOFT on	-	-	-	-

M	PC7410ISS	(04/07/2003)	мото	OROLA	gz	1489	1.12	17	-
	PC7410GENISS	MPC7410 Generic Library ISS (04/07/2003) MPC7410 Standalone ISS		OROLA	gz	2293	1.12		-
IC	)	Name	Vendo	r ID	Format	Size K	Rev #		Order Availabili
Ins	struction Set Si	mulator				0:	-		
Models									
WPIDE		0®POWER IDE	W	VINDRIV		-	-	-	-
IC-SW-OP				<u>ISYS</u>		-	-	-	-
MULTI	MULT	· ΓΙ	GRE	EENHILLS		-	_	-	-
ID	Nam		Vendor ID			Format	Size K	Rev #	Order Availabili
IDE (Integ	rated Developm	nent Environment)							
POWERPO	C DEBUGGER	MULTI Debugger			ILLS	-	-	-	-
ARC-MOT	RC-MOT-DEBUGGER MetaWare SeeCo		ugger	er <u>ARC</u>			-	-	-
ID		Name		Vendor ID		Format	Size K	Rev #	Order Availabili
Debugger	s								
DIAB		C/C++ Compiler		WINDRIV			-	-	-
COMPILEI MULTI CO	•	nized compiler for Motorola proces TI Compiler For PowerPC	ssors	GREENHILLS			-	_	_
ARC-MOT	_ Edition	on for PowerPC Ware C/C++ Compiler Tool Suite		ARC			_	_	_
CWLINPP	C Code	eWarrior Development Studio. Linu:		METROWERKS		_	-	-	י צעש
CWEPPC		eWarrior Development Studio for Po	owerPC ISA				K -	# -	Availabili
ID	Nam	ne		Vendor	ID	Format	Size	Rev	Order
Compilers	-								
PA68K-PP		.sm/68K for PowerPC .sm/86 for PowerPC		MICROAPL MICROAPL			-	-	-
ID	Nam	е		Ven	ndor ID	Format	Size K	Rev #	Order Availabili
tware Tool Code Tran							01	<b>.</b>	Ouston
NPSTACK	NP N	etwork Stack		KE	NATI	-	-	-	-
PN713-1	featur KwikN	(wikNet TCP/IP Stack enables you res to your products with a minimur Net is a compact, high performance AK's characteristic simplicity, flexibi	m of time and expe		<u>NDAK</u>	-	-	-	-
01117	Kwikl				<u>CMX</u>	-	-	-	-
CMX TCP/	ID CMV	TCD/ID			'AAV				

△ Return to Top



# Networking and Communications Access

Cable Modem Termination System

#### A Return to Top

# Orderable Parts Information

Part Number	Package Description	Tape and Reel	Pb-Free Terminations	Application/ Qualification Tier	Status	Budgetary Price QTY 1000+ (\$US)	Info	Order
MPC7410HX400LE	FCCBGA 360 25SQ*3.2P1.27	No	No		No Longer Manufactured	-	more	Buy From Distributor
MPC7410HX450LE	FCCBGA 360 25SQ*3.2P1.27	No	No		Available	-	more	Buy From Distributor
MPC7410HX500LE	FCCBGA 360 25SQ*3.2P1.27	No	No	COMMERCIAL, INDUSTRIAL	Available	-	more	Buy From Distributor
MPC7410RX400LE	FCCBGA 360 25SQ*3.2P1.27	No	No		Available	-	more	Buy From Distributor
MPC7410RX400NE	FCCBGA 360 25SQ*3.2P1.27	No	No		Available	-	more	Buy From Distributor
MPC7410RX450LE	FCCBGA 360 25SQ*3.2P1.27	No	No		Available	-	more	Buy From Distributor
MPC7410RX450NE	FCCBGA 360 25SQ*3.2P1.27	No	No		Available	-	more	Buy From Distributor
MPC7410RX500LE	FCCBGA 360 25SQ*3.2P1.27	No	No		Available	-	more	Buy From Distributor
MPC7410THX400LE	FCCBGA 360 25SQ*3.2P1.27	No	No		No Longer Manufactured	-	more	Buy From Distributor
MPC7410THX450LE	FCCBGA 360 25SQ*3.2P1.27	No	No		No Longer Manufactured	-	more	Buy From Distributor
MPC7410THX500LE	FCCBGA 360 25SQ*3.2P1.27	No	No		Available	-	more	Buy From Distributor
MPC7410TRX400LE	FCCBGA 360 25SQ*3.2P1.27	No	No		Available	-	more	Buy From Distributor
MPC7410TRX400NE	FCCBGA 360 25SQ*3.2P1.27	No	No		Available	-	more	Buy From Distributor
MPC7410TRX450LE	FCCBGA 360 25SQ*3.2P1.27	No	No		Available	-	more	Buy From Distributor
MPC7410TRX450NE	FCCBGA 360 25SQ*3.2P1.27	No	No		Available	-	more	Buy From Distributor
MPC7410TRX500LE	FCCBGA 360 25SQ*3.2P1.27	No	No		Available	-	more	Buy From Distributor

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